

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CL/V -33309A	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/008825	International filing date (day/month/year) 06/08/2004	(Earliest) Priority Date (day/month/year) 07/08/2003
Applicant NOVARTIS AG		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☐ as suggested by the applicant.

☒ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/008825

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/66 A61B5/00 G01N33/58

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/045783 A1 (MARCH ET AL) 6 March 2003 (2003-03-06) paragraphs '0012!, '0014! -----	1-9
Y	DICESARE, N ET AL: "Spectral Properties of Fluorophores Combining the Boronic Acid Group with Electron Donor or Withdrawing Groups. Implication in the Development of Fluorescence Probes for Saccharides" JOURNAL OF PHYSICAL CHEMISTRY A, vol. 105, no. 28, 2001, pages 6834-6840, XP001197156 page 6840, column 1, last paragraph - column 2, paragraph 1; figure 1 -----	1-9
P, X	US 2004/087842 A1 (LAKOWICZ & DICESARE) 6 May 2004 (2004-05-06) paragraph '0080!; examples 1,2 ----- -/-	1-9

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

7 December 2004

Date of mailing of the international search report

17/12/2004

Name and mailing address of the ISA

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Rijnster M

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/008825

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00/78830 A (NOVARTIS AG) 28 December 2000 (2000-12-28) page 18, paragraph 2 page 21, last paragraph	2
A	DICESARE, N ET AL: "Chalcone-analogue fluorescent probes for saccharides signaling using the boronic acid group" TETRAHEDRON LETTERS, vol. 43, no. 14, 2002, pages 2615-2618, XP004343966 cited in the application abstract	1-9
A	DI CESARE, N. ET AL: "Wavelength-ratiometric probes for saccharides based on donor-acceptor diphenylpolyenes" JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY, A: CHEMISTRY, vol. 143, no. 1, 2001, pages 39-47, XP002309288 page 46, column 2, paragraph 1; figure 1	1-9
A	SHINMORI, H AL: "Spectroscopic sugar sensing by a stilbene derivative with push (Me ₂ N)-pull((HO) ₂ B-)-type substituents" TETRAHEDRON, vol. 51, no. 7, 1995, pages 1893-18902, XP004104823 the whole document	1-9
A	US 2001/026946 A1 (ASHER) 4 October 2001 (2001-10-04) the whole document	1
A	US 2002/049389 A1 (ABREU) 25 April 2002 (2002-04-25) abstract	1
A	WO 02/087429 A (NOVARTIS AG) 7 November 2002 (2002-11-07) abstract	1
A	US 3 958 560 A (MARCH WAYNE FRONT) 25 May 1976 (1976-05-25) abstract	1
A	US 5 535 743 A (MENZEBACH ET AL) 16 July 1996 (1996-07-16) abstract	1

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/008825

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	<p>BADUGU, R ET AL: "Noninvasive continuous monitoring of physiological glucose using a monosaccharide-sensing contact lens"</p> <p>ANALYTICAL CHEMISTRY, vol. 76, no. 3, 2004, pages 610-618, XP001047317 the whole document</p> <p>-----</p>	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/008825

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003045783	A1	06-03-2003	US 2002007113 A1 17-01-2002
			US 2001034500 A1 25-10-2001
			AU 767995 B2 27-11-2003
			AU 7279600 A 19-03-2001
			BR 0013609 A 21-05-2002
			CA 2381520 A1 01-03-2001
			EP 1206213 A1 22-05-2002
			HU 0202889 A2 28-01-2003
			JP 2003507717 T 25-02-2003
			MX PA02002029 A 20-08-2002
			NO 20020851 A 21-02-2002
			US 2004059207 A1 25-03-2004
			US 2002125436 A1 12-09-2002
			CN 1371256 T 25-09-2002
			WO 0113783 A1 01-03-2001
			ZA 200201427 A 03-09-2002
US 2004087842	A1	06-05-2004	NONE
WO 0078830	A	28-12-2000	AU 5976000 A 09-01-2001
			WO 0078830 A1 28-12-2000
			EP 1192194 A1 03-04-2002
			JP 2003502493 T 21-01-2003
US 2001026946	A1	04-10-2001	US 6187599 B1 13-02-2001
			US 5854078 A 29-12-1998
			US 5898004 A 27-04-1999
			US 2003027240 A1 06-02-2003
			US 2002031841 A1 14-03-2002
			US 2002164823 A1 07-11-2002
			AU 6693598 A 12-10-1998
			CA 2283565 A1 24-09-1998
			EP 0986750 A1 22-03-2000
			JP 3342498 B2 11-11-2002
			JP 2001517307 T 02-10-2001
			WO 9841859 A1 24-09-1998
			AU 717930 B2 06-04-2000
			AU 5093698 A 29-05-1998
			CA 2270346 A1 14-05-1998
			EP 0951348 A1 27-10-1999
			JP 2001505236 T 17-04-2001
			WO 9819787 A1 14-05-1998
US 2002049389	A1	25-04-2002	US 6312393 B1 06-11-2001
			US 6120460 A 19-09-2000
			US 5830139 A 03-11-1998
			CA 2438141 A1 06-09-2002
			EP 1370144 A1 17-12-2003
			WO 02067688 A1 06-09-2002
			US 2003139687 A1 24-07-2003
			US 2004039297 A1 26-02-2004
			US 2004039298 A1 26-02-2004
			AU 761842 B2 12-06-2003
			AU 1904900 A 22-05-2000
			CA 2348266 A1 11-05-2000
			CN 1328432 T 26-12-2001
			EP 1126781 A1 29-08-2001
			JP 2002528212 T 03-09-2002

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/008825

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002049389 A1		WO 0025662 A1	11-05-2000
		US 2003069489 A1	10-04-2003
		US 6123668 A	26-09-2000
		US 6213943 B1	10-04-2001
		US 2002049374 A1	25-04-2002
		AU 741461 B2	29-11-2001
		AU 4177897 A	26-03-1998
		BR 9711993 A	18-01-2000
		CA 2264193 A1	12-03-1998
		CN 1229345 A	22-09-1999
		EP 0926979 A1	07-07-1999
		JP 2000517231 T	26-12-2000
		WO 9809564 A1	12-03-1998
WO 02087429 A	07-11-2002	CA 2441787 A1	07-11-2002
		WO 02087429 A1	07-11-2002
		EP 1385423 A1	04-02-2004
		JP 2004528103 T	16-09-2004
		NO 20034777 A	24-10-2003
		US 2004152963 A1	05-08-2004
US 3958560 A	25-05-1976	DE 2538985 A1	26-05-1976
		GB 1521113 A	09-08-1978
		JP 51075498 A	30-06-1976
		US 4014321 A	29-03-1977
US 5535743 A	16-07-1996	DE 4243142 A1	23-06-1994
		DE 59309390 D1	01-04-1999
		EP 0603658 A1	29-06-1994
		JP 2736002 B2	02-04-1998
		JP 6237898 A	30-08-1994